

Suffolk County NY

Department of Health Services

2000 ANNUAL REPORT

Vital Statistics for 1999

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County Executive

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Commissioner

Note on Changes in the Vital Statistics Data

Starting with the 1999 vital statistics data, two important changes were made in the way statistical data are classified and analyzed. These changes are very important to keep in mind when comparing rates calculated from 1999 or later years with rates from pre-1999 data.

The first change is that, starting with 1999, deaths are classified using a new system *International Classification of Disease 10* (ICD 10) instead of the older ICD 9 system. For certain causes of death, like influenza and pneumonia, rates have been substantially reduced because deaths have been reclassified to other causes under ICD 10. For other causes of death, like cancer, total death rates have been little impacted but the internal distribution of deaths between different types of cancer have changed¹. A dashed vertical line has been used in the mortality trend graphs in the *SCDHS Annual Report* to caution in making trend comparisons between rates compiled in the two ways. (Rigorous statistical comparisons between ICD 9 and ICD 10 compiled rates requires the use of a formula with a comparability ratio for that cause of death. Some of these ratios have been published by the National Center for Health Statistics, see footnote one below.)

A second major change was also made beginning with the 1999 data. The age adjustment standard for mortality data was changed from the 1940 US population to the 2000 US population. Age standards are used so that rates can be compared between populations that have different age distributions. Older populations generally have more disease, so one wants to control for differences in age when making population comparisons. Different data sets, mortality, cancer incidence, national health surveys, etc., had been using different standard populations (1940 US population, 1970 US population, etc.). Therefore it was decided in 1998 by the US Department of Health and Human Services to adopt a single age adjustment standard across all health data sets². This change in the age adjustment standard only affects a single *SCDHS Annual Report* table: 'Crude and Age-Adjusted Death Rates From Leading Causes by Township of Residence'. In this table the age-adjusted rates, given in parentheses, use the new standard. Caution should be exerted in comparing these age-adjusted rates with the corresponding age-adjusted rates in previous year editions of the *SCDHS Annual Report*. Rate differences could be due, entirely or in part, to differences in the age-adjustment standard or in changes in the disease classification system.

¹For a detailed discussion of the impact of this change see Anderson RN, Minino AM, Hoyert DL, and Rosenberg HM; 'Comparability of Cause of Death Between ICD-9 and ICD-10: Preliminary Estimates'; National Vital Statistics Reports; Vol. 49, No. 2, May 18, 2001

²Klein, RJ, Schoenborn CA; 'Age Adjustment Using the 2000 Projected US Population'; Healthy People 2010 Statistical Notes; No. 20, Jan. 2001

**VITAL STATISTICS RATES BY TOWNSHIP OF RESIDENCE:
1999 COMPARISON OF SUFFOLK COUNTY WITH OTHER AREAS**

Numbers	1999			
	Total N.Y.S.	New York City	Nassau County	Suffolk County
Live Births	255,147	119,179	16,935	19,948
Premature Births (1)	20,005	10,170	1,240	1,411
Out-of-Wedlock Births (2)	94,477	55,431	3,071	4,220
Total Pregnancies (3)	409,283	228,594	22,571	27,157
Teenage Pregnancies (4)	46,241	27,386	1,369	2,288
Births to Teenage Mothers	21,469	10,881	567	1,028
Total Deaths	159,027	61,411	11,245	10,939
Infant Deaths (<1 Year)	1,605	791	85	117
Neonatal Deaths (<28 days)	1,120	563	60	94
Induced Abortions	132,681	95,981	4,205	5,980
Spontaneous Fetal Deaths	21,455	13,434	1,431	1,229
Marriages	131,608	58,059	8,311	9,367
Dissolutions of Marriage	60,693	25,685	4,054	4,642
Rates				
Live Births (5)	13.6	15.8	13.2	14.4
Premature Births (6)	7.8	8.5	7.3	7.1
Out-of-Wedlock Births (6)	37.1	17.8	18.1	39.2
Teenage Pregnancies (7)	11.3	12.0	6.1	8.4
Births to Teenage Mothers (6)	8.4	9.1	3.3	5.1
Total Deaths (5)	8.5	8.0	8.8	7.9
Infant Deaths (<1 Year) (8)	6.3	6.6	5.0	5.9
Neonatal Deaths (<28 days) (8)	4.4	4.7	3.5	4.7
Induced Abortions (9)	342.1	445.9	198.9	230.6
Spontaneous Fetal Deaths (9)	77.6	101.3	77.9	58.0
Marriages (5)	7.0	7.6	6.5	6.8
Dissolutions of Marriage (5)	3.2	3.4	3.2	3.4

(1) Birth weights less than 2,500 grams

(2) Out-of-Wedlock Births include births where father's age was not stated on birth certificate plus births where paternity affidavit was filed.

(3) Pregnancies include Live Births, Induced Abortions and Spontaneous Fetal Deaths

(4) Females 19 years of age or younger

(5) Rate of 1,000 population

(6) Percentage of Total Live Births

(7) Percentage of Total Pregnancies

(8) Rate per 1,000 Live Births

(9) Rates per 1,000 Live Births plus induced Abortions or Spontaneous Fetal Deaths

**VITAL STATISTICS RATES BY TOWNSHIP OF RESIDENCE:
SUFFOLK COUNTY, 1999**

	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	TOTAL (1) S. County
Live Births (2)	14.7	14.2	11.7	14.4	15.7	9.2	6.3	13.4	15.1	9.2	14.4
Premature Births (3)	8.0	7.5	5.9	6.2	7.4	6.0	13.3	5.6	5.5	4.6	7.1
Teenage Pregnancies (4)	10.3	8.7	6.1	5.3	9.8	10.5	7.7	2.6	8.8	7.4	8.4
Births to Teenage Mothers (5)	6.7	4.9	5.9	2.6	7.0	8.5	6.7	0.7	5.8	5.1	5.1
Total Deaths (2)	8.0	7.4	9.2	7.9	6.8	13.3	13.5	8.6	11.1	12.4	7.9
Infant Deaths (<1 Year) (6)	4.9	5.6	14.8	5.4	6.6	12.8	0.0	6.5	4.0	5.1	5.9
Neonatal Deaths (<28 Days) (6)	4.9	5.0	14.8	3.6	4.7	4.3	0.0	4.5	4.0	5.1	4.7
Induced Abortions (7)	264.3	256.4	264.5	165.1	218.6	247.6	400.0	143.2	195.9	180.7	230.6
Spontaneous Fetal Deaths (7)	69.9	70.1	81.4	42.8	51.8	48.8	62.5	33.2	40.3	40.2	58.0

(1) Includes event with residence unknown

(2) Rates per 1,000 population

(3) Percent of all live births weighing less than 2,500 grams

(4) Percent of all pregnancies to mothers of age 19 or younger

(5) Percent of all live births to mothers of age 19 or younger

(6) Rates per 1,000 live births

(7) Rates per 1,000 live births plus induced abortions or spontaneous fetal deaths

Data Source:

New York State Department of Health

**VITAL STATISTICS BY TOWNSHIP OF RESIDENCE:
SUFFOLK COUNTY, 1999**

	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	TOTAL (1) S. County
Population (2)	207,968	438,538	17,387	194,328	309,206	25,544	2,377	114,985	48,980	21,113	1,380,428
Live Births	3,048	6,248	203	2,797	4,885	234	15	1,543	739	195	19,948
Premature Births (3)	244	468	12	173	357	14	2	86	41	9	1,411
Total Pregnancies (4)	4,372	8,874	294	3,475	6,478	323	26	1,854	950	243	27,157
Teenage Pregnancies (5)	451	773	18	184	633	34	2	48	84	18	2,288
Births to Teenage Mothers	205	307	12	74	340	20	1	11	43	10	1,028
Total Deaths	1,668	3,248	160	1,528	2,103	341	32	990	545	262	10,939
Infant Deaths (<1 Year)	15	35	3	15	32	3	0	10	3	1	117
Neonatal Deaths (<28 Days)	15	31	3	10	23	1	0	7	3	1	94
Induced Abortions	1,095	2,155	73	553	1,358	77	10	258	180	43	5,980
Spontaneous Fetal Deaths	229	471	18	125	265	12	1	53	31	5	1,229

(1) County Totals may be higher than the sum of townships because of events reported with unknown residence

(2) LIPA Population Estimates

(3) All live births with birth weight less than 2,500 grams

(4) Sum of all live births, induced abortions, and spontaneous fetal deaths

(5) All pregnancies to mothers of age 19 or younger

**NUMBER OF SELECTED NOTIFIABLE DISEASES BY TOWNSHIP OF RESIDENCE:
SUFFOLK COUNTY, 1999 AND PROVISIONAL 2000**

	1999										Suffolk County Totals	
Disease	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	1999	2000 Prov.
Amebiasis	3	4	2	4	7	1	0	0	1	0	22	24
Babesiosis	0	15	8	0	3	3	0	0	11	7	47	53
Campylobacteriosis	22	71	6	28	30	2	0	8	5	1	173	172
E.Coli 0157:H7	1	13	4	4	2	0	0	0	1	0	25	28
Ehrlichiosis	0	1	1	0	0	1	0	1	0	0	4	3
Encephalitis	1	0	0	1	2	0	0	0	0	0	4	5
Giardiasis	11	33	4	19	24	3	1	4	13	5	117	141
Gonorrhea	120	77	3	46	64	47	0	3	7	2	369	276
Hemophilus Influenza	1	2	0	1	0	1	0	0	0	1	6	6
Hepatitis A	10	9	1	12	11	1	0	2	1	0	47	20
Hepatitis B	4	8	0	1	5	0	0	0	1	0	19	17
Hepatitis C	0	2	0	1	2	0	0	0	0	0	5	2
Legionellosis	1	0	0	0	0	0	0	0	0	0	1	4
Lyme Disease	13	188	86	25	61	42	22	18	129	61	645	500
Malaria	3	4	0	3	9	0	0	0	0	0	19	11
Measles	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis	13	25	1	14	28	2	0	7	0	4	94	89
Mumps	0	0	0	0	1	0	0	0	0	0	1	2
Pertussis	0	2	0	4	1	0	0	0	0	0	7	16
R.M. Spotted Fever	0	4	0	0	1	1	0	1	1	0	8	3
Rubella	0	0	0	0	2	0	0	0	0	0	2	2
Salmonellosis	28	74	5	17	44	8	0	7	2	7	192	187
Shigellosis	3	2	0	8	10	0	0	0	0	1	24	47
Syphilis	9	7	0	2	15	5	0	3	1	0	42	26
Tuberculosis	5	11	1	15	14	2	0	1	1	1	53	67

**RATES(1) OF SELECTED NOTIFIABLE DISEASES BY TOWNSHIP OF RESIDENCE:
SUFFOLK COUNTY, 1999 AND PROVISIONAL 2000**

	1999										Suffolk County Totals (1)	
Disease	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	1999	2000 Prov.
Amebiasis	1.4	0.9	11.5	2.1	2.3	3.9	0.0	0.0	2.0	0.0	1.6	1.7
Babesiosis	0.0	3.4	46.0	0.0	1.0	11.7	0.0	0.0	22.5	33.1	3.4	3.8
Campylobacteriosis	10.6	16.2	34.5	14.4	9.7	7.8	0.0	7.0	10.2	4.8	12.5	12.4
E.Coli 0157:H7	0.5	2.3	23.0	2.1	0.6	0.0	0.0	0.0	2.0	0.0	1.8	2.0
Ehrlichiosis	0.0	0.2	5.8	0.0	0.0	3.9	0.0	0.9	0.0	0.0	0.3	0.2
Encephalitis	0.5	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.4
Giardiasis	5.3	7.5	23.0	9.8	7.8	3.9	42.1	3.5	26.5	23.7	8.5	10.2
Gonorrhea	57.7	17.6	17.3	23.7	20.7	184.0	0.0	2.6	14.3	9.5	26.7	20.0
Hemophilus Influenza	0.5	0.5	0.0	0.5	0.0	3.9	0.0	0.0	0.0	4.8	0.4	0.4
Hepatitis A	4.8	2.0	5.8	6.2	3.6	3.9	0.0	1.7	2.0	0.0	3.4	1.4
Hepatitis B	1.9	1.8	0.0	0.5	1.6	0.0	0.0	0.0	2.0	0.0	1.4	1.2
Hepatitis C	0.0	0.5	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.4	0.1
Legionellosis	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
Lyme Disease	6.3	42.9	494.6	12.9	19.7	164.4	925.5	15.6	263.4	288.9	46.7	36.2
Malaria	1.4	0.9	0.0	1.5	2.9	0.0	0.0	0.0	0.0	0.0	1.4	0.8
Measles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningitis	6.3	5.7	5.8	7.2	9.0	7.8	0.0	6.1	0.0	18.9	6.8	6.4
Mumps	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Pertussis	0.0	0.5	0.0	2.1	0.3	0.0	0.0	0.0	0.0	0.0	0.5	1.2
R.M. Spotted Fever	0.0	0.9	0.0	0.0	0.3	3.9	0.0	0.9	2.0	0.0	0.6	0.2
Rubella	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Salmonellosis	13.5	16.9	28.8	8.7	14.2	31.3	0.0	6.1	4.1	31.1	13.9	13.5
Shigellosis	1.4	0.5	0.0	4.1	3.2	0.0	0.0	0.0	2.0	4.8	1.7	3.4
Syphilis	4.3	1.5	0.0	1.0	4.9	19.6	0.0	2.6	0.0	0.0	3.0	1.9
Tuberculosis	2.4	2.5	5.8	7.7	4.5	11.7	0.0	0.9	2.0	4.8	3.8	4.9

(1) Cases per 100,000 population

**NUMBER OF DEATHS FROM LEADING CAUSES BY TOWNSHIP OF RESIDENCE:
SUFFOLK COUNTY, 1999**

CAUSE OF DEATH WITH I.C.D. X CODE	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	TOTAL (1) S. County
Heart Disease (I00- I09, I11, I13, I20-I51)	621	1,215	53	518	789	105	6	394	175	80	3,979
Malignant Neoplasms (C00-C97)	434	799	47	398	536	96	11	237	140	75	2,788
Cerebrovascular Disease (I60-I69)	73	153	5	86	90	23	3	54	43	20	552
Motor Vehicle Accidents (Note 2)	27	56	2	23	39	8	3	7	9	3	179
All other accidents (See Note 2)	33	87	2	30	55	6	1	20	10	9	257
Cirrhosis of Liver (K70, K73, K74)	13	17	1	15	12	5	0	9	4	5	81
Chronic Obstructive Pulmonary Disease (J40-J47)	81	134	10	73	89	20	2	43	27	13	493
Diabetes Mellitus (E10-E14)	31	63	1	30	41	8	0	13	8	4	199
Pneumonia and Influenza (J10-J18)	47	69	6	45	59	5	0	21	14	4	271
Atherosclerosis (I70)	3	11	0	23	7	1	0	7	1	2	56
Suicide (X60-X849, Y870)	20	26	2	12	23	4	2	6	4	0	99
Homicide (X85-Y099, Y871, Y35, Y890)	9	6	1	7	10	0	0	2	1	0	36
All Other Causes	276	612	28	268	353	60	4	177	111	47	1,949

Data Source:

New York State Department of Health

(1) County totals may be higher than the sum of townships because of events with Township of Residence unknown.

(2) Motor Vehicle Accidents and All Other Accidents use miscellaneous non-consecutive V codes in ICD X. A list of codes for each of these causes is available on request.

**CRUDE AND AGE ADJUSTED *DEATH RATES **FROM LEADING CAUSES BY TOWNSHIP OF RESIDENCE:
SUFFOLK COUNTY, 1999**

I.C.D. X CODE	CAUSE OF DEATH	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	TOTALS S. County
(I00-09, I11, I13, I20-I21)	Heart Disease	298.6	277.1	302.8	266.6	255.2	411.1	252.4	342.7	358.0	378.9	286.6
		(321.7)	(334.5)	(239.9)	(267.4)	(342.0)	(282.0)	(116.4)	(306.1)	(271.0)	(197.8)	(309.4)
(C00-C97)	Malignant Neoplasms	208.7	182.2	272.0	204.8	173.3	375.8	462.8	206.1	285.2	355.2	200.9
		(213.9)	(210.8)	(213.8)	(197.7)	(211.3)	(281.5)	(211.2)	(188.3)	(221.3)	(218.0)	(209.4)
(I60-I69)	Cerebrovascular Disease	35.1	34.9	30.7	44.3	29.1	90.0	126.2	47.0	87.1	94.7	39.8
		(37.3)	(42.8)	(24.6)	(44.7)	(39.0)	(62.1)	(50.1)	(41.3)	(64.0)	(47.8)	(43.3)
(See Note***)	Motor Vehicle Accidents	13.0	12.8	11.5	11.8	12.6	31.3	126.2	6.1	18.4	14.2	12.8
		(13.1)	(13.5)	(15.4)	(13.6)	(13.8)	(35.7)	(146.1)	(5.9)	(19.7)	(7.5)	(13.4)
(See Note***)	All other accidents	15.9	19.8	13.4	15.4	17.8	23.5	42.1	17.4	19.7	42.6	18.3
		(16.6)	(21.6)	(11.5)	(16.0)	(19.7)	(17.7)	(62.5)	(17.0)	(17.0)	(27.3)	(19.0)
(K70, K73, K74)	Cirrhosis of Liver	6.3	3.9	7.6	7.7	3.9	19.6	.0	7.8	7.5	23.7	5.9
		(6.4)	(4.3)	(6.1)	(7.4)	(4.5)	(15.4)	(.0)	(7.3)	(5.8)	(18.2)	(6.0)
(J40-J47)	Chronic Obstructive Pulmonary	38.9	30.6	57.5	37.6	28.8	78.3	84.1	37.4	55.1	61.6	35.6
		(41.3)	(37.2)	(44.7)	(37.2)	(38.2)	(55.8)	(33.1)	(35.8)	(41.2)	(32.7)	(38.5)
(E10-E14)	Diabetes Mellitus	14.9	14.4	5.8	15.4	13.3	31.3	.0	11.3	16.3	18.9	14.4
		(15.1)	(17.1)	(4.9)	(15.7)	(16.3)	(22.7)	(.0)	(10.1)	(12.6)	(10.3)	(15.3)
(J10-J18)	Pneumonia and Influenza	22.6	15.7	36.4	23.2	19.1	19.6	.0	18.3	27.9	18.9	19.6
		(24.8)	(19.2)	(33.5)	(23.8)	(26.4)	(13.1)	(.0)	(15.7)	(20.6)	(11.5)	(21.3)
(I70)	Atherosclerosis	1.4	2.5	.0	11.8	2.3	3.9	.0	6.1	2.0	9.5	4.0
		(1.5)	(3.1)	(.0)	(12.1)	(3.1)	(2.6)	(.0)	(5.8)	(1.4)	(5.3)	(4.4)
(X60-X84.9, Y87.0)	Suicide	9.6	5.9	13.4	6.2	7.4	15.7	84.1	5.2	7.5	.0	7.2
		(9.4)	(5.8)	(11.0)	(6.3)	(7.7)	(19.1)	(67.8)	(5.7)	(7.9)	(.0)	(7.2)
(X85-Y09.9, Y87.1, Y35, Y89.0)	Homicide	4.3	1.4	5.8	3.6	3.2	.0	.0	1.7	2.0	.0	2.6
		(4.3)	(1.3)	(8.5)	(3.7)	(3.2)	(.0)	(.0)	(1.7)	(2.4)	(.0)	(2.6)
	All Other Causes	132.7	139.6	162.8	137.9	114.2	234.9	168.3	153.9	226.0	222.6	140.2
		(138.6)	(161.9)	(143.7)	(136.8)	(138.4)	(185.8)	(70.7)	(144.4)	(177.2)	(125.8)	(148.3)

*Adjusted to 2000 U.S. Population. Age Adjusted rates are given in parentheses.

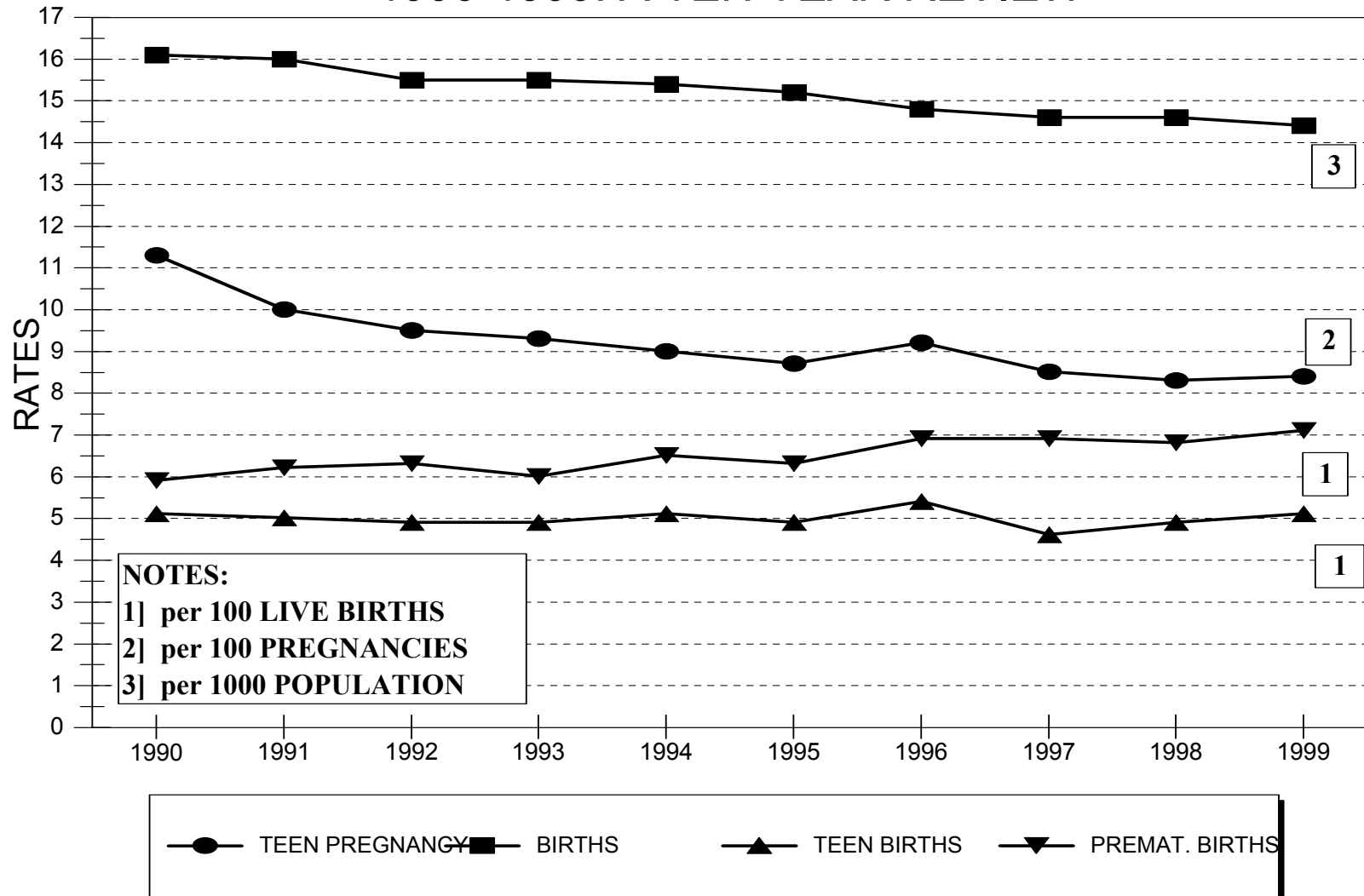
**Rates per 100,000 population.

*** Motor Vehicle Accidents and All Other Accidents use miscellaneous non-consecutive V codes in ICD X. A list of codes for each of these causes is available on request.

Data Source: New York State Department of Health

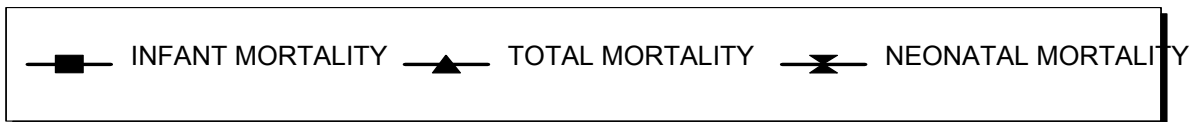
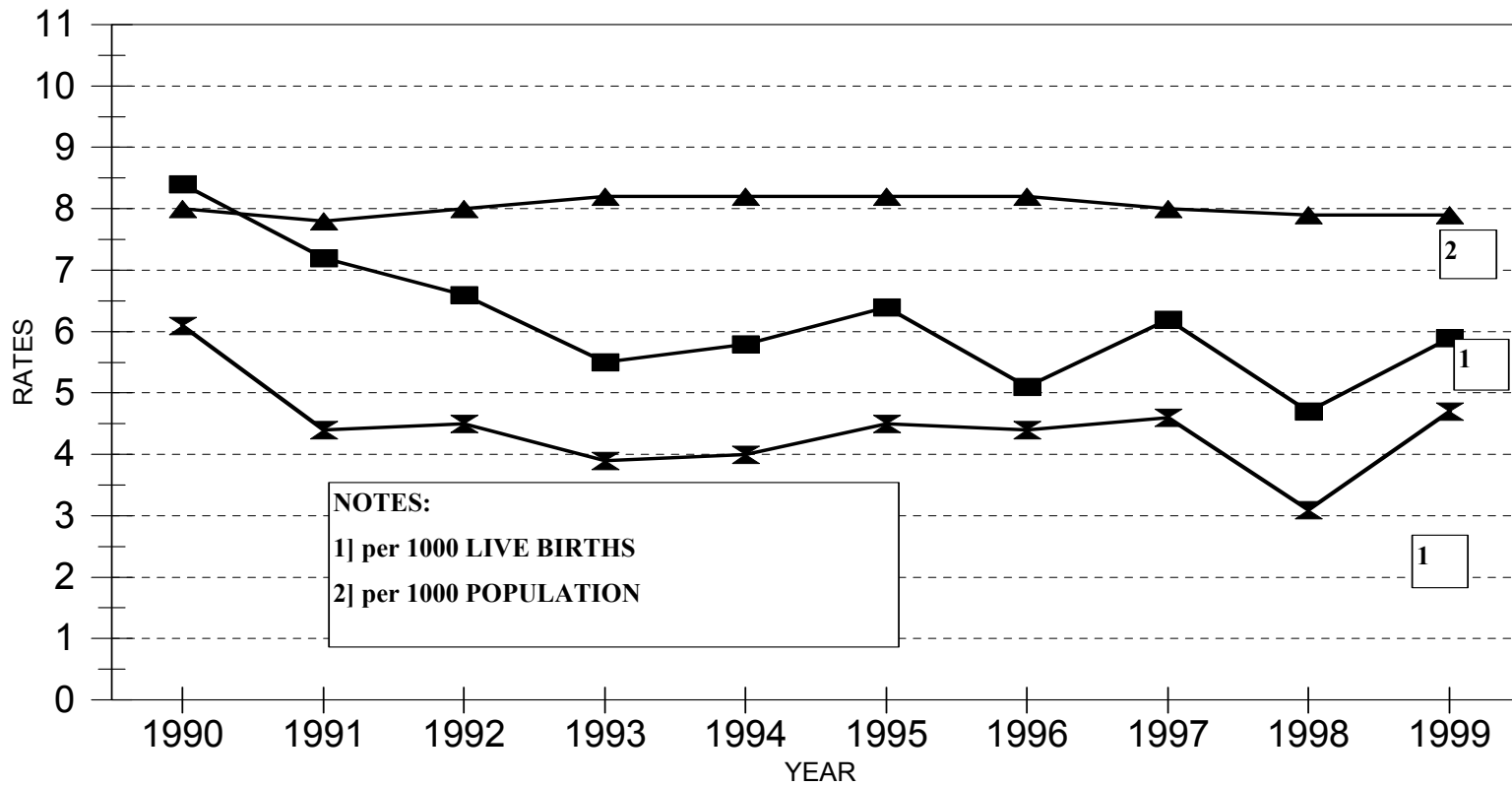
NATALITY RATES: SUFFOLK COUNTY

1990-1999: A TEN YEAR REVIEW



MORTALITY RATES: SUFFOLK COUNTY

1990-1999: A TEN YEAR REVIEW

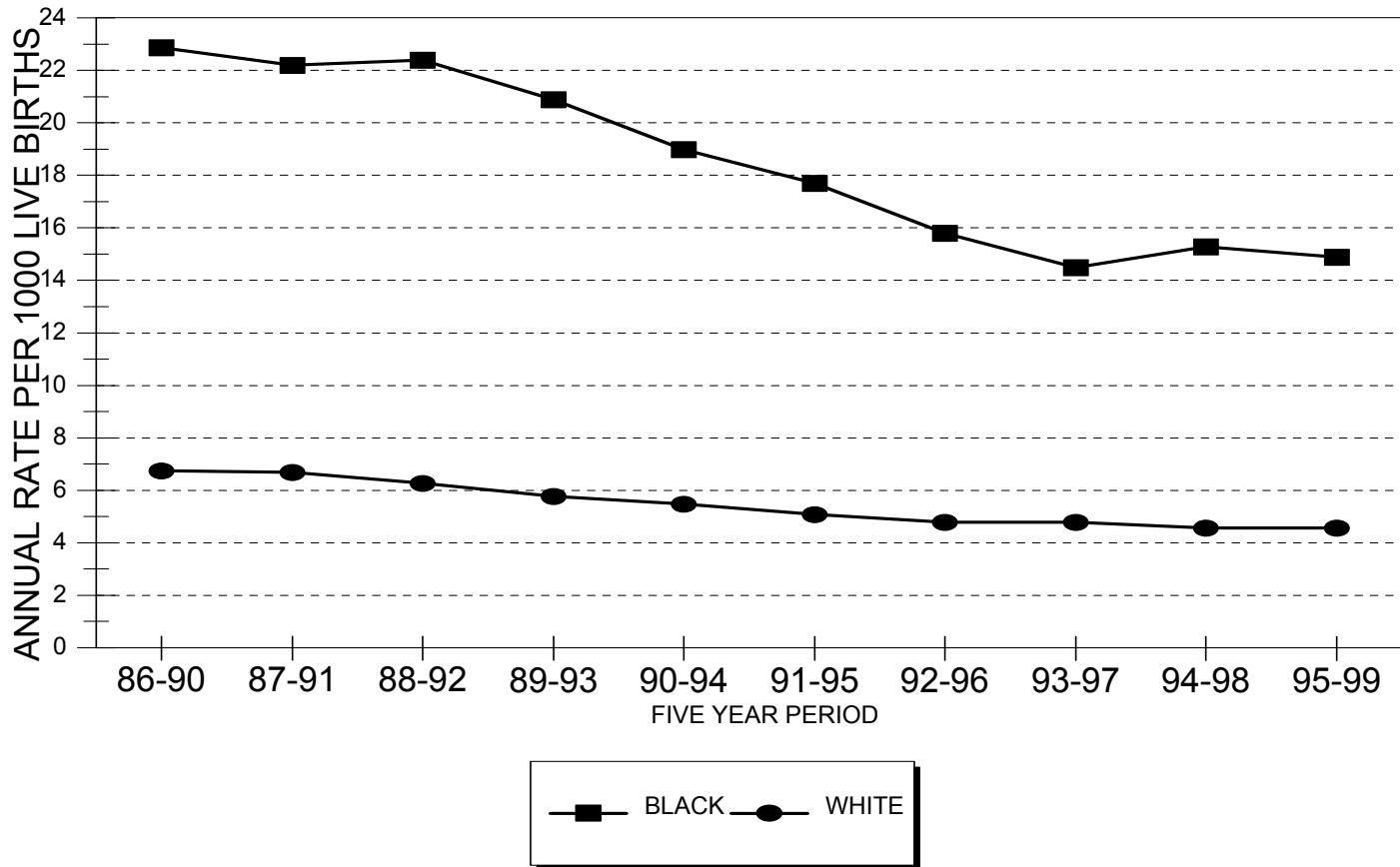


**INFANT DEATHS BY RACE
FREQUENCIES AND RATES*
SUFFOLK COUNTY 1990-1999**

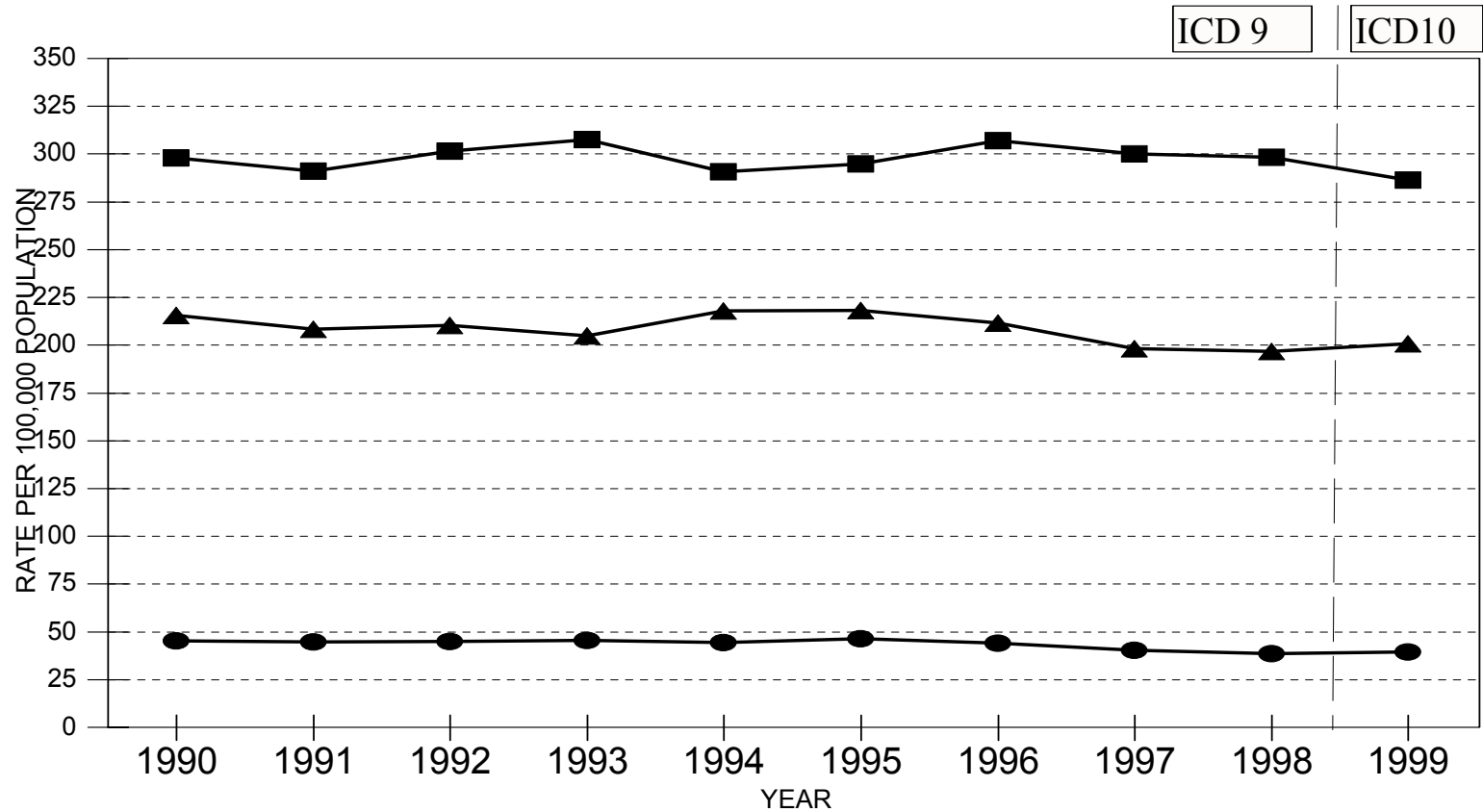
YEAR OF DEATH										
RACE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
WHITE	130	108	92	88	89	84	75	93	66	91
	(6.9)	(5.8)	(5.1)	(4.9)	(4.9)	(4.7)	(4.3)	(5.3)	(3.8)	(5.2)
BLACK	45	41	37	22	27	32	21	23	28	23
	(25.8)	(21.9)	(20.1)	(12.1)	(15.3)	(19.1)	(12.5)	(13.7)	(15.7)	(13.6)

* Rates per 1,000 Live Births are given in parentheses

ANNUAL INFANT MORTALITY BY RACE
5 YR MOVING AVERAGE: SUFFOLK NY



SELECTED CAUSES OF MORTALITY SUFFOLK NY 1999-1999

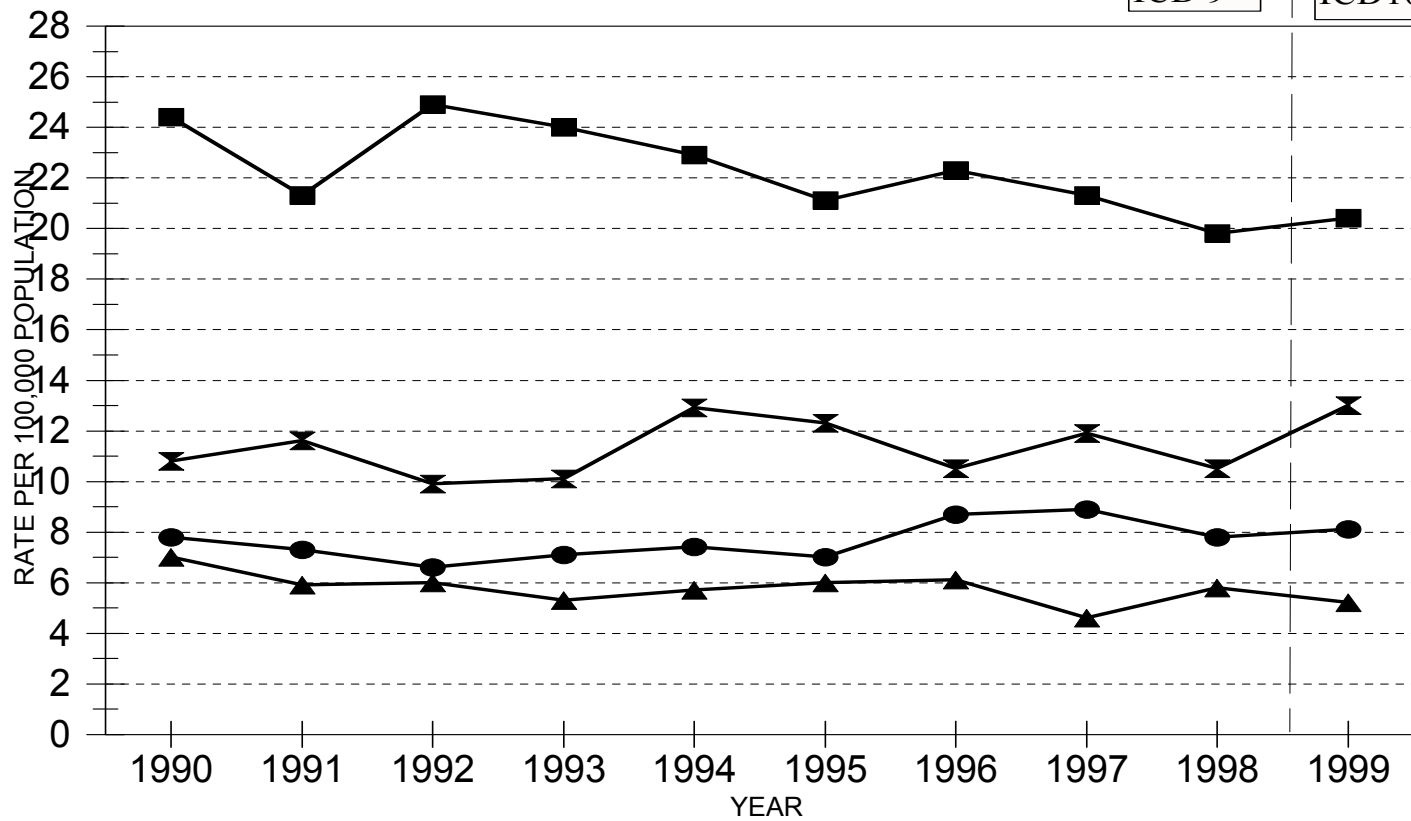


CANCER MORTALITY BY SITE

SUFFOLK NY 1990-1999

ICD 9

ICD10

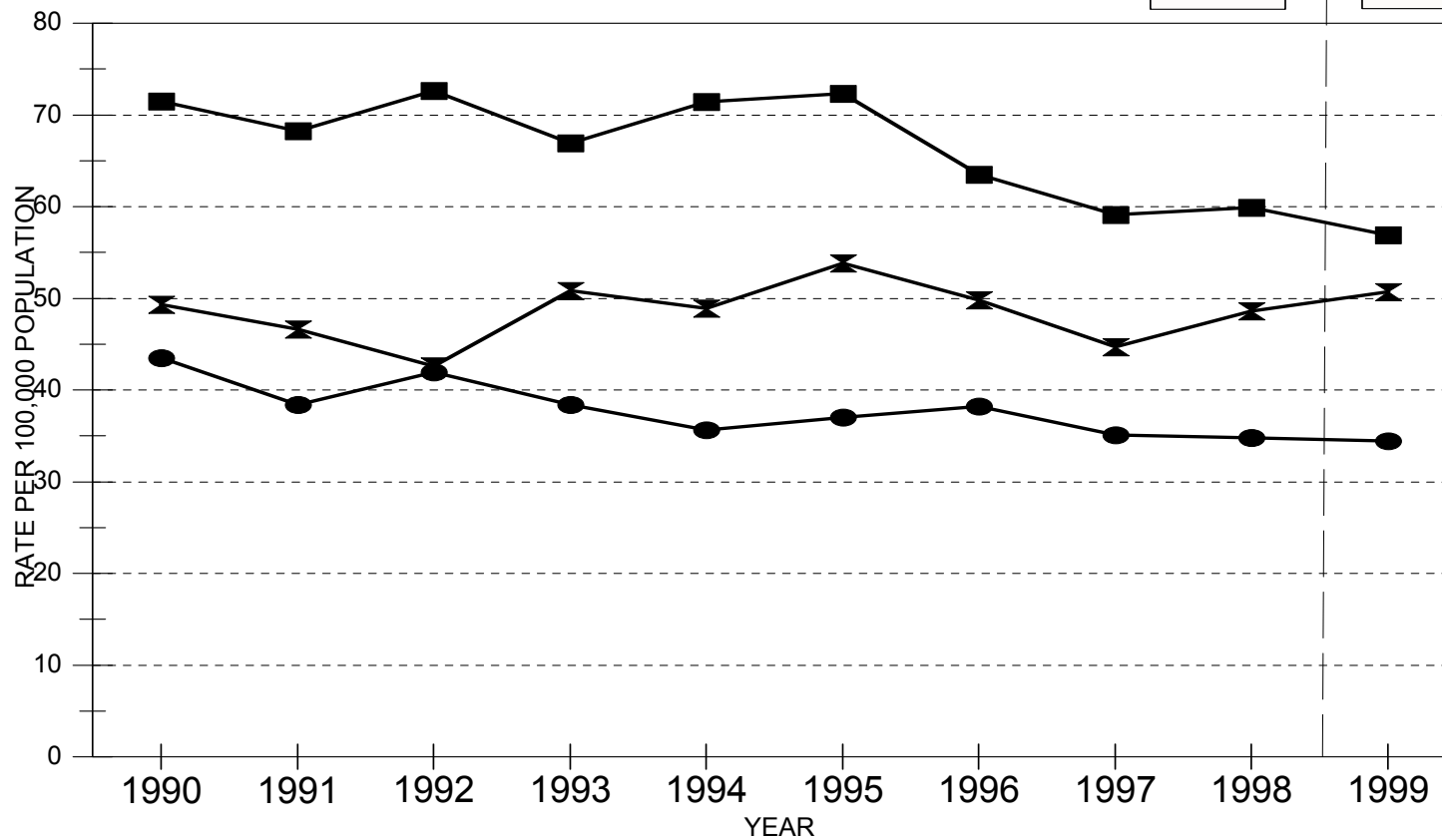


LUNG AND BREAST CANCER MORTALITY

SUFFOLK NY 1990-1999

ICD 9

ICD10



—■— LUNG MALE —X— LUNG FEMALE —●— BREAST FEMALE

ACQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS)
UNITED STATES AND SUFFOLK COUNTY BY RISK FACTOR
CUMULATIVE DATA THROUGH DECEMBER 31, 2000
EXCLUDING CHILDREN

RISK FACTOR	UNITED STATES		SUFFOLK COUNTY	
	NUMBER	PERCENT	NUMBER	PERCENT
HOMOSEXUAL	355,409	46%	1,089	33%
INJECTING DRUG ABUSER	193,527	25%	1,307	39%
HOMOSEXUAL AND INJECT DRUGS	48,989	6%	225	7%
HEMOPHILIAC	5,190	1%	20	1%
HETEROSEXUAL	81,981	11%	348	10%
BLOOD TRANSFUSIONS	8,777	1%	48	1%
OTHER / UNKNOWN	71,686	9%	289	9%
TOTAL	765,559	100%	3,326	100%

Data compiled by

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Biostatistician